

James E. Ward Agricultural Center & Wilson County Fairgrounds A Destination for Learning about Tennessee Healthy Watersheds:

Examples of Innovative and Interactive Urban Stormwater Best
Management Strategies in Middle Tennessee
December 2012

Project Goals:

- ◆ To establish an education and demonstration center and a research site at the James E. Ward Agriculture Center in Wilson County, Tennessee, and
- ◆ To enhance and construct innovative green infrastructure techniques to provide water quality treatment for nearly 75% of the Wilson County fairground site.

Project Benefits at James E. Ward Agricultural Center:

The Stormwater Demonstration Site will feature innovative, demonstrated, hands-on and permanent approaches to stormwater management design and application.

Improved Habitat

- ◆ Enhancement of existing Arboretum from a Level I to a Level II certified Arboretum
- ◆ Approximately 1 acre of habitat improvement through wetland restoration
- ◆ 300 feet of Rain Gardens and 150 feet of bioswale Installations

Improved Water Quality

Estimated long-term impacts for the watershed:

- ◆ 76% reduction in total suspended solids (10,447 lbs / year)
- ◆ 35% reduction in total phosphorus (28 lbs/ year)
- ◆ 43% reduction in total nitrogen (190 lbs / year)

Educational Site

- ◆ Permeable pavement parking lot project
- ◆ Establishment of an education and demonstration center and a research site for citizens, students, stormwater professionals, and government inspectors
- ◆ Exposure to over 1 million visitors a year currently.

The activities associated with the funding in this proposal will be completed by the end of September 30, 2013.

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